

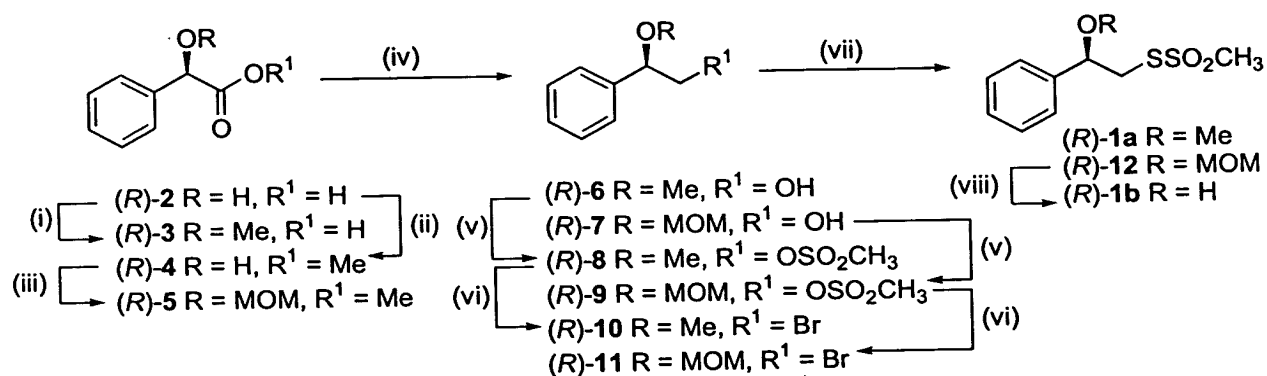
Figure 1

Fig. 1

The corresponding (S) MTS ligands follow the same code scheme (i.e. (S)-a, (S)-b, (S)-d, (S)-e, (S)-f, (S)-g, (S)-h, (S)-i).

Fig. 2

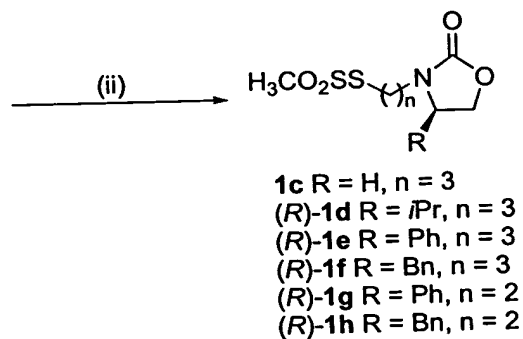
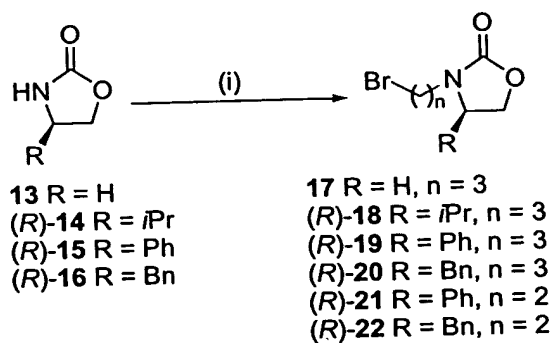
Scheme 2. Synthesis of Mandelate-based Ligands



Reagents: (i) Me_2SO_4 , NaOH , H_2O , 37%; (ii) MeOH , H^+ ; (ii) MOM-Cl , CH_2Cl_2 , Et_3N (90% 2 steps);
 (iv) For $(R)\text{-}3$: BH_3 , THF , 82%; For $(R)\text{-}5$: LiBH_4 , THF , 97%; (v) MeSO_2Cl , CH_2Cl_2 , Et_3N ;
 For $(R)\text{-}8$: 100%; (vi) LiBr , acetone; For $(R)\text{-}10$: 84%; For $(R)\text{-}11$: 78% 2 steps; (vii) $\text{NaSSO}_2\text{CH}_3$, DMF ;
 For $(R)\text{-}12$: 61%; (viii) TFA , H_2O , 82%.

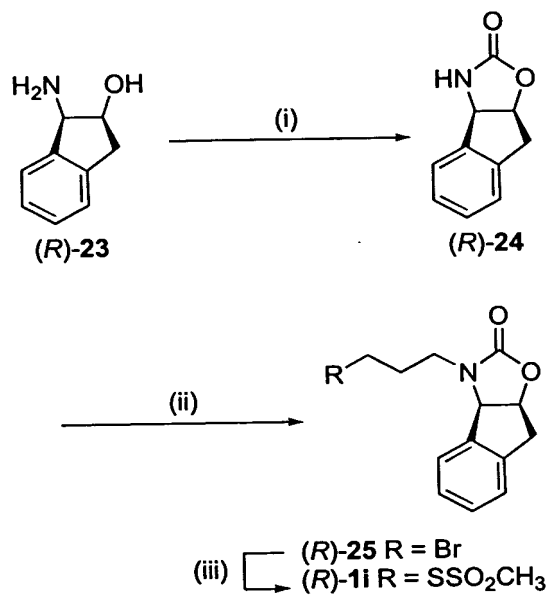
Fig. 3

Scheme 3. Synthesis of Oxazolidinone-based Ligands



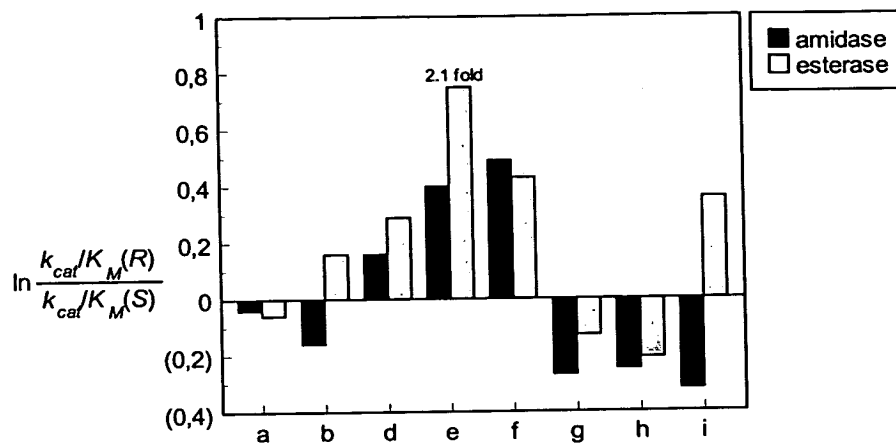
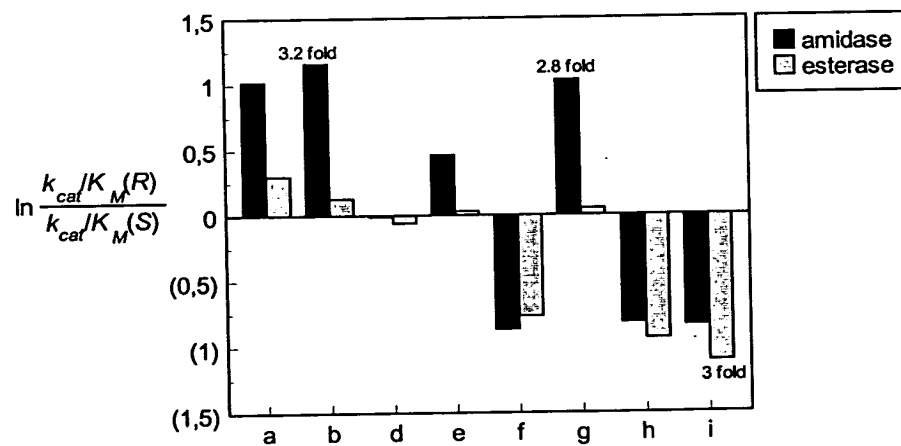
Reagents: (i) KOH, DMSO, Br (CH₂)_nBr;
 (ii) NaSSO₂CH₃, DMF.

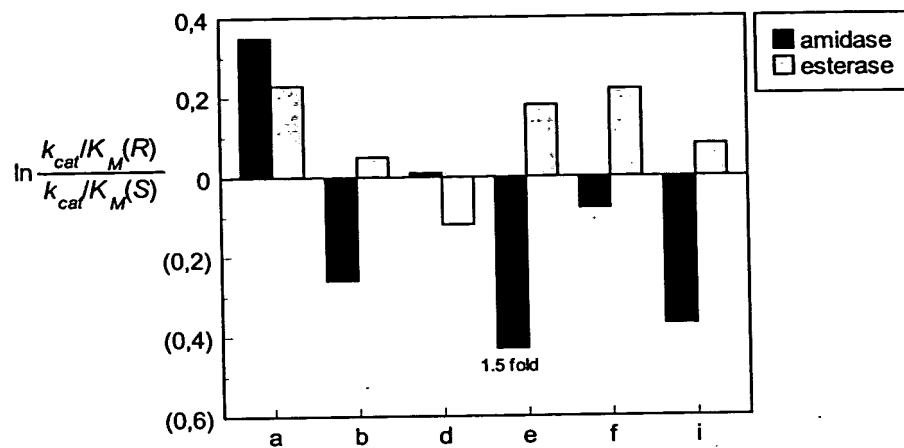
Fig. 4

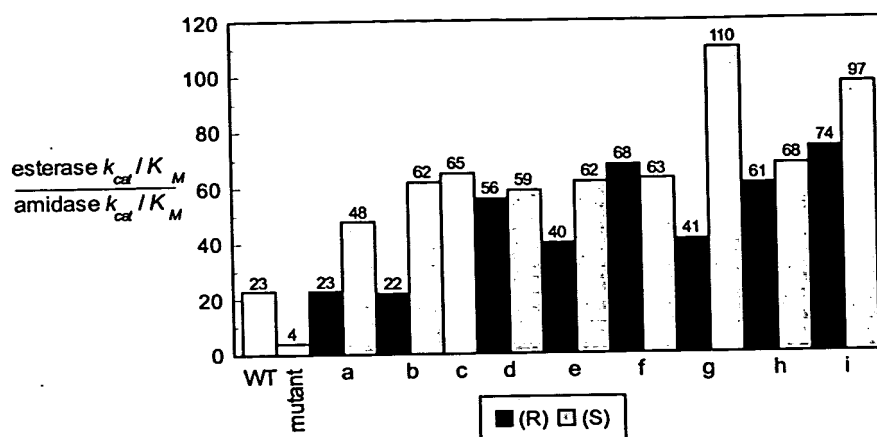
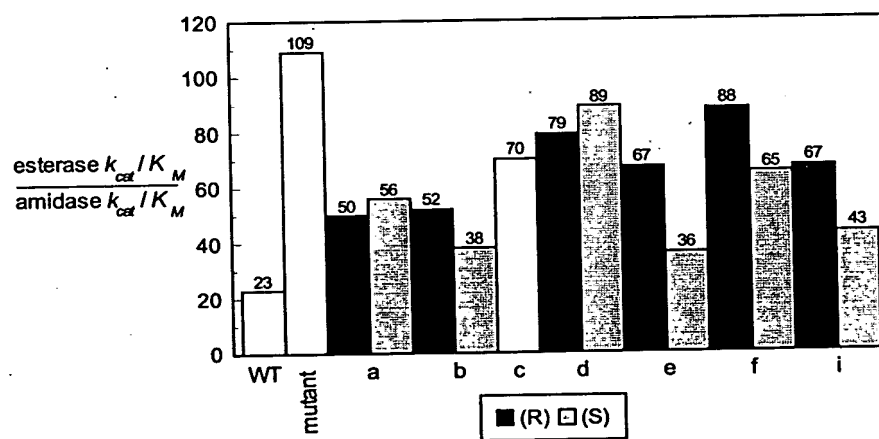
Scheme 4. Synthesis of Indanol-based Ligands

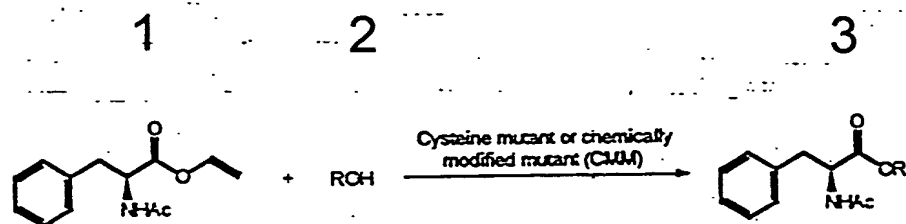
Reagents: (i) triphosgene, CH₂Cl₂, Et₃N, 100%;
(ii) KOH, DMSO, Br(CH₂)₃Br; (iii) NaSSO₂CH₃,
DMF.

Fig. 5

**Fig. 6A****Fig. 6B**

**Fig. 6C**

**Fig. 7A****Fig. 7B**

**Fig. 8**